

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/729,895A  
Source: IFWO  
Date Processed by STIC: 8/3/05

# ***ENTERED***

IF AVAILABLE COPY

**CRF Errors Edited by the STIC Systems  
Branch**

Serial Number: 10/729,895A

CRF Edit Date: 8/8/05  
Edited by: h

\_\_\_ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

\_\_\_ Corrected the SEQ ID NO. Sequence numbers edited were:

\_\_\_\_\_

\_\_\_ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

\_\_\_\_\_

/ Deleted: \_\_\_ invalid beginning/end-of-file text ; \_\_\_ page numbers

\_\_\_ Inserted mandatory headings/numeric identifiers, specifically:

\_\_\_\_\_

\_\_\_ Moved responses to same line as heading/numeric identifier, specifically:

\_\_\_\_\_

\_\_\_ Other:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Revised 09/09/2003



IFWO

## RAW SEQUENCE LISTING

DATE: 08/08/2005

PATENT APPLICATION: US/10/729,895A

TIME: 10:52:14

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08082005\J729895A.raw

3 <110> APPLICANT: UNIVERSITY OF NEW MEXICO  
 5 <120> TITLE OF INVENTION: OUTCOME PREDICTION AND RISK CLASSIFICATION IN CHILDHOOD  
 6 LEUKEMIA  
 8 <130> FILE REFERENCE: N12-038US/310.00050101  
 10 <140> CURRENT APPLICATION NUMBER: 10/729,895A  
 11 <141> CURRENT FILING DATE: 2003-12-05  
 13 <150> PRIOR APPLICATION NUMBER: 60/510,904  
 14 <151> PRIOR FILING DATE: 2003-10-14  
 16 <150> PRIOR APPLICATION NUMBER: 60/510,968  
 17 <151> PRIOR FILING DATE: 2003-10-14  
 19 <150> PRIOR APPLICATION NUMBER: 60/432,064  
 20 <151> PRIOR FILING DATE: 2002-12-06  
 22 <150> PRIOR APPLICATION NUMBER: 60/432,077  
 23 <151> PRIOR FILING DATE: 2002-12-06  
 25 <150> PRIOR APPLICATION NUMBER: 60/432,078  
 26 <151> PRIOR FILING DATE: 2002-12-06  
 28 <160> NUMBER OF SEQ ID NOS: 18  
 30 <170> SOFTWARE: PatentIn Ver. 3.2  
 32 <210> SEQ ID NO: 1  
 33 <211> LENGTH: 1080  
 34 <212> TYPE: DNA  
 35 <213> ORGANISM: Homo sapiens  
 37 <220> FEATURE:  
 38 <221> NAME/KEY: CDS  
 39 <222> LOCATION: (1)..(1026)  
 41 <400> SEQUENCE: 1  
 42 atg cct ttc ctt ttg ggt ctt aga cag gat aag gaa gcc tgt gtg ggt 48  
 43 Met Pro Phe Leu Leu Gly Leu Arg Gln Asp Lys Glu Ala Cys Val Gly  
 44 1 5 10 15  
 46 acc aac aat caa agc tac atc tgt gac aca gga cac tgc tgt gga cag 96  
 47 Thr Asn Asn Gln Ser Tyr Ile Cys Asp Thr Gly His Cys Cys Gly Gln  
 48 20 25 30  
 50 tct cag tgc tgc aac tac tac tat gaa ctc tgg tgg ttc tgg ctg gtg 144  
 51 Ser Gln Cys Cys Asn Tyr Tyr Tyr Glu Leu Trp Trp Phe Trp Leu Val  
 52 35 40 45  
 54 tgg acc atc atc atc atc ctg agc tgc tgc tgt gtt tgc cac cac cgc 192  
 55 Trp Thr Ile Ile Ile Ile Leu Ser Cys Cys Cys Val Cys His His Arg  
 56 50 55 60  
 58 cga gcc aag cac cgc ctt cag gcc cag cag cgg caa cat gaa atc aac 240  
 59 Arg Ala Lys His Arg Leu Gln Ala Gln Gln Arg Gln His Glu Ile Asn  
 60 65 70 75 80  
 62 ctg atc gct tac cga gaa gcc cac aat tac tca gcg ctg cca ttt tat 288  
 63 Leu Ile Ala Tyr Arg Glu Ala His Asn Tyr Ser Ala Leu Pro Phe Tyr

## RAW SEQUENCE LISTING

DATE: 08/08/2005

PATENT APPLICATION: US/10/729,895A

TIME: 10:52:14

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08082005\J729895A.raw

64		85		90		95		
66	ttc agg ttt ttg cca aac tat tta cta cct cct tat gag gaa gtg gtg	336						
67	Phe Arg Phe Leu Pro Asn Tyr Leu Leu Pro Pro Tyr Glu Glu Val Val							
68		100		105		110		
70	aac cga cct cca act cct ccc cca cca tac agt gcc ttc cag cta cag	384						
71	Asn Arg Pro Pro Thr Pro Pro Pro Pro Tyr Ser Ala Phe Gln Leu Gln							
72		115		120		125		
74	cag cag cag ctg ctg cct cca cag tgt ggc cct gca ggt ggc agt ccc	432						
75	Gln Gln Gln Leu Leu Pro Pro Gln Cys Gly Pro Ala Gly Gly Ser Pro							
76		130		135		140		
78	ccg ggc atc gat ccc acc agg gga tcc cag ggg gca cag agc agc ccc	480						
79	Pro Gly Ile Asp Pro Thr Arg Gly Ser Gln Gly Ala Gln Ser Ser Pro							
80	145		150		155		160	
82	ttg tct gag ccc agc aga agc agc aca aga ccc cca agc atc gct gac	528						
83	Leu Ser Glu Pro Ser Arg Ser Ser Thr Arg Pro Pro Ser Ile Ala Asp							
84		165		170		175		
86	cct gat ccc tct gac cta cca gtt gac cga gca gcc acc aaa gcc cca	576						
87	Pro Asp Pro Ser Asp Leu Pro Val Asp Arg Ala Ala Thr Lys Ala Pro							
88		180		185		190		
90	ggg atg gag ccc agt ggc tct gtg gct ggc ctg ggg gag ctg gac ccg	624						
91	Gly Met Glu Pro Ser Gly Ser Val Ala Gly Leu Gly Glu Leu Asp Pro							
92		195		200		205		
94	ggg gcc ttc ctg gac aaa gat gca gaa tgt agg gag gag ctg ctg aaa	672						
95	Gly Ala Phe Leu Asp Lys Asp Ala Glu Cys Arg Glu Glu Leu Leu Lys							
96		210		215		220		
98	gat gac agc tct gaa cac ggc gca ccc gac agc aaa gag aag acg cct	720						
99	Asp Asp Ser Ser Glu His Gly Ala Pro Asp Ser Lys Glu Lys Thr Pro							
100	225		230		235		240	
102	ggg aga cat cgc cgc ttc aca ggt gac tcg ggc att gaa gtg tgt gtg	768						
103	Gly Arg His Arg Arg Phe Thr Gly Asp Ser Gly Ile Glu Val Cys Val							
104		245		250		255		
106	tgc aac cgg ggc cac cat gac gat gac ctc aaa gag ttc aac aca ctc	816						
107	Cys Asn Arg Gly His His Asp Asp Asp Leu Lys Glu Phe Asn Thr Leu							
108		260		265		270		
110	atc gat gat gct ctg gat ggg ccc ctg gac ttc tgc gac agc tgc cat	864						
111	Ile Asp Asp Ala Leu Asp Gly Pro Leu Asp Phe Cys Asp Ser Cys His							
112		275		280		285		
114	gtg cgg ccc cct ggt gat gag gag gaa ggc ctc tgt cag tcc tct gag	912						
115	Val Arg Pro Pro Gly Asp Glu Glu Glu Gly Leu Cys Gln Ser Ser Glu							
116		290		295		300		
118	gag cag gct cga gag cct ggg cac ccg cac ctg cca cgg ccg ccc gca	960						
119	Glu Gln Ala Arg Glu Pro Gly His Pro His Leu Pro Arg Pro Pro Ala							
120	305		310		315		320	
122	tgc ctg ctg ctg aac acc atc aac gag cag gac tct ccc aac tcc cag	1008						
123	Cys Leu Leu Leu Asn Thr Ile Asn Glu Gln Asp Ser Pro Asn Ser Gln							
124		325		330		335		
126	agc agc agc tcc ccc agc tagagcaggt cctgccagca cccagcaact	1056						
127	Ser Ser Ser Ser Pro Ser							
128		340						

## RAW SEQUENCE LISTING

DATE: 08/08/2005

PATENT APPLICATION: US/10/729,895A

TIME: 10:52:14

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08082005\J729895A.raw

```

130 tggcaaagca accagggtag ggga                                1080
133 <210> SEQ ID NO: 2
134 <211> LENGTH: 342
135 <212> TYPE: PRT
136 <213> ORGANISM: Homo sapiens
138 <400> SEQUENCE: 2
139 Met Pro Phe Leu Leu Gly Leu Arg Gln Asp Lys Glu Ala Cys Val Gly
140   1           5           10           15
142 Thr Asn Asn Gln Ser Tyr Ile Cys Asp Thr Gly His Cys Cys Gly Gln
143           20           25           30
145 Ser Gln Cys Cys Asn Tyr Tyr Tyr Glu Leu Trp Trp Phe Trp Leu Val
146           35           40           45
148 Trp Thr Ile Ile Ile Ile Leu Ser Cys Cys Cys Val Cys His His Arg
149           50           55           60
151 Arg Ala Lys His Arg Leu Gln Ala Gln Gln Arg Gln His Glu Ile Asn
152   65           70           75           80
154 Leu Ile Ala Tyr Arg Glu Ala His Asn Tyr Ser Ala Leu Pro Phe Tyr
155           85           90           95
157 Phe Arg Phe Leu Pro Asn Tyr Leu Leu Pro Pro Tyr Glu Glu Val Val
158           100          105          110
160 Asn Arg Pro Pro Thr Pro Pro Pro Tyr Ser Ala Phe Gln Leu Gln
161           115          120          125
163 Gln Gln Gln Leu Leu Pro Pro Gln Cys Gly Pro Ala Gly Gly Ser Pro
164           130          135          140
166 Pro Gly Ile Asp Pro Thr Arg Gly Ser Gln Gly Ala Gln Ser Ser Pro
167 145           150          155          160
169 Leu Ser Glu Pro Ser Arg Ser Ser Thr Arg Pro Pro Ser Ile Ala Asp
170           165          170          175
172 Pro Asp Pro Ser Asp Leu Pro Val Asp Arg Ala Ala Thr Lys Ala Pro
173           180          185          190
175 Gly Met Glu Pro Ser Gly Ser Val Ala Gly Leu Gly Glu Leu Asp Pro
176           195          200          205
178 Gly Ala Phe Leu Asp Lys Asp Ala Glu Cys Arg Glu Glu Leu Leu Lys
179           210          215          220
181 Asp Asp Ser Ser Glu His Gly Ala Pro Asp Ser Lys Glu Lys Thr Pro
182 225          230          235          240
184 Gly Arg His Arg Arg Phe Thr Gly Asp Ser Gly Ile Glu Val Cys Val
185           245          250          255
187 Cys Asn Arg Gly His His Asp Asp Asp Leu Lys Glu Phe Asn Thr Leu
188           260          265          270
190 Ile Asp Asp Ala Leu Asp Gly Pro Leu Asp Phe Cys Asp Ser Cys His
191           275          280          285
193 Val Arg Pro Pro Gly Asp Glu Glu Glu Gly Leu Cys Gln Ser Ser Glu
194           290          295          300
196 Glu Gln Ala Arg Glu Pro Gly His Pro His Leu Pro Arg Pro Pro Ala
197 305           310          315          320
199 Cys Leu Leu Leu Asn Thr Ile Asn Glu Gln Asp Ser Pro Asn Ser Gln
200           325          330          335
202 Ser Ser Ser Ser Pro Ser

```

## RAW SEQUENCE LISTING

DATE: 08/08/2005

PATENT APPLICATION: US/10/729,895A

TIME: 10:52:14

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08082005\J729895A.raw

```

203          340
207 <210> SEQ ID NO: 3
208 <211> LENGTH: 1140
209 <212> TYPE: DNA
210 <213> ORGANISM: Homo sapiens
212 <220> FEATURE:
213 <221> NAME/KEY: CDS
214 <222> LOCATION: (1)..(1089)
216 <400> SEQUENCE: 3
217 atg gag agg aga agg ctc ctg ggt ggc atg gcg ctc ctg ctc ctc cag 48
218 Met Glu Arg Arg Arg Leu Leu Gly Gly Met Ala Leu Leu Leu Leu Gln
219 1 5 10 15
221 gcg ctg ccc agc ccc ttg tca gcc agg gct gaa ccc ccg cag gat aag 96
222 Ala Leu Pro Ser Pro Leu Ser Ala Arg Ala Glu Pro Pro Gln Asp Lys
223 20 25 30
225 gaa gcc tgt gtg ggt acc aac aat caa agc tac atc tgt gac aca gga 144
226 Glu Ala Cys Val Gly Thr Asn Asn Gln Ser Tyr Ile Cys Asp Thr Gly
227 35 40 45
229 cac tgc tgt gga cag tct cag tgc tgc aac tac tac tat gaa ctc tgg 192
230 His Cys Cys Gly Gln Ser Gln Cys Cys Asn Tyr Tyr Tyr Glu Leu Trp
231 50 55 60
233 tgg ttc tgg ctg gtg tgg acc atc atc atc atc ctg agc tgc tgc tgt 240
234 Trp Phe Trp Leu Val Trp Thr Ile Ile Ile Ile Leu Ser Cys Cys Cys
235 65 70 75 80
237 gtt tgc cac cac cgc cga gcc aag cac cgc ctt cag gcc cag cag cgg 288
238 Val Cys His His Arg Arg Ala Lys His Arg Leu Gln Ala Gln Gln Arg
239 85 90 95
241 caa cat gaa atc aac ctg atc gct tac cga gaa gcc cac aat tac tca 336
242 Gln His Glu Ile Asn Leu Ile Ala Tyr Arg Glu Ala His Asn Tyr Ser
243 100 105 110
245 gcg ctg cca ttt tat ttc agg ttt ttg cca aac tat tta cta cct cct 384
246 Ala Leu Pro Phe Tyr Phe Arg Phe Leu Pro Asn Tyr Leu Leu Pro Pro
247 115 120 125
249 tat gag gaa gtg gtg aac cga cct cca act cct ccc cca cca tac agt 432
250 Tyr Glu Glu Val Val Asn Arg Pro Pro Thr Pro Pro Pro Tyr Ser
251 130 135 140
253 gcc ttc cag cta cag cag cag cag ctg ctg cct cca cag tgt ggc cct 480
254 Ala Phe Gln Leu Gln Gln Gln Gln Leu Leu Pro Pro Gln Cys Gly Pro
255 145 150 155 160
257 gca ggt ggc agt ccc ccg ggc atc gat ccc acc agg gga tcc cag ggg 528
258 Ala Gly Gly Ser Pro Pro Gly Ile Asp Pro Thr Arg Gly Ser Gln Gly
259 165 170 175
261 gca cag agc agc ccc ttg tct gag ccc agc aga agc agc aca aga ccc 576
262 Ala Gln Ser Ser Pro Leu Ser Glu Pro Ser Arg Ser Ser Thr Arg Pro
263 180 185 190
265 cca agc atc gct gac cct gat ccc tct gac cta cca gtt gac cga gca 624
266 Pro Ser Ile Ala Asp Pro Asp Pro Ser Asp Leu Pro Val Asp Arg Ala
267 195 200 205
269 gcc acc aaa gcc cca ggg atg gag ccc agt ggc tct gtg gct ggc ctg 672

```

## RAW SEQUENCE LISTING

DATE: 08/08/2005

PATENT APPLICATION: US/10/729,895A

TIME: 10:52:14

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08082005\J729895A.raw

```

270 Ala Thr Lys Ala Pro Gly Met Glu Pro Ser Gly Ser Val Ala Gly Leu
271      210      215      220
273 ggg gag ctg gac ccg ggg gcc ttc ctg gac aaa gat gca gaa tgt agg 720
274 Gly Glu Leu Asp Pro Gly Ala Phe Leu Asp Lys Asp Ala Glu Cys Arg
275 225      230      235      240
277 gag gag ctg ctg aaa gat gac agc tct gaa cac ggc gca ccc gac agc 768
278 Glu Glu Leu Leu Lys Asp Asp Ser Ser Glu His Gly Ala Pro Asp Ser
279      245      250      255
281 aaa gag aag acg cct ggg aga cat cgc cgc ttc aca ggt gac tcg ggc 816
282 Lys Glu Lys Thr Pro Gly Arg His Arg Arg Phe Thr Gly Asp Ser Gly
283      260      265      270
285 att gaa gtg tgt gtg tgc aac cgg ggc cac cat gac gat gac ctc aaa 864
286 Ile Glu Val Cys Val Cys Asn Arg Gly His His Asp Asp Asp Leu Lys
287      275      280      285
289 gag ttc aac aca ctc atc gat gat gct ctg gat ggg ccc ctg gac ttc 912
290 Glu Phe Asn Thr Leu Ile Asp Asp Ala Leu Asp Gly Pro Leu Asp Phe
291      290      295      300
293 tgc gac agc tgc cat gtg cgg ccc cct ggt gat gag gag gaa ggc ctc 960
294 Cys Asp Ser Cys His Val Arg Pro Pro Gly Asp Glu Glu Glu Gly Leu
295 305      310      315      320
297 tgt cag tcc tct gag gag cag gct cga gag cct ggg cac ccg cac ctg 1008
298 Cys Gln Ser Ser Glu Glu Gln Ala Arg Glu Pro Gly His Pro His Leu
299      325      330      335
301 cca cgg ccg ccc gca tgc ctg ctg ctg aac acc atc aac gag cag gac 1056
302 Pro Arg Pro Pro Ala Cys Leu Leu Leu Asn Thr Ile Asn Glu Gln Asp
303      340      345      350
305 tct ccc aac tcc cag agc agc agc tcc ccc agc tagagcaggt cctgccagca 1109
306 Ser Pro Asn Ser Gln Ser Ser Ser Ser Pro Ser
307      355      360
309 cccagcaact tggcaaagca accagggtag g 1140
312 <210> SEQ ID NO: 4
313 <211> LENGTH: 363
314 <212> TYPE: PRT
315 <213> ORGANISM: Homo sapiens
317 <400> SEQUENCE: 4
318 Met Glu Arg Arg Arg Leu Leu Gly Gly Met Ala Leu Leu Leu Leu Gln
319 1      5      10      15
321 Ala Leu Pro Ser Pro Leu Ser Ala Arg Ala Glu Pro Pro Gln Asp Lys
322      20      25      30
324 Glu Ala Cys Val Gly Thr Asn Asn Gln Ser Tyr Ile Cys Asp Thr Gly
325      35      40      45
327 His Cys Cys Gly Gln Ser Gln Cys Cys Asn Tyr Tyr Tyr Glu Leu Trp
328      50      55      60
330 Trp Phe Trp Leu Val Trp Thr Ile Ile Ile Ile Leu Ser Cys Cys Cys
331 65      70      75      80
333 Val Cys His His Arg Arg Ala Lys His Arg Leu Gln Ala Gln Gln Arg
334      85      90      95
336 Gln His Glu Ile Asn Leu Ile Ala Tyr Arg Glu Ala His Asn Tyr Ser
337      100      105      110

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/729,895A

DATE: 08/08/2005  
TIME: 10:52:15

Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF4\08082005\J729895A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:17; Xaa Pos. 4



**VERIFICATION SUMMARY**

DATE: 08/08/2005

PATENT APPLICATION: US/10/729,895A

TIME: 10:52:15

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08082005\J729895A.raw

L:624 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0

REST AVAILABLE COPY

**Raw Sequence Listing before editing,  
for reference only**



IFWO

## RAW SEQUENCE LISTING

DATE: 08/03/2005

PATENT APPLICATION: US/10/729,895A

TIME: 14:35:17

Input Set : A:\N12-038US Seg Listing.txt

Output Set: N:\CRF4\08032005\J729895A.raw

3 <110> APPLICANT: UNIVERSITY OF NEW MEXICO  
 5 <120> TITLE OF INVENTION: OUTCOME PREDICTION AND RISK CLASSIFICATION IN CHILDHOOD  
 6 LEUKEMIA  
 8 <130> FILE REFERENCE: N12-038US/310.00050101  
 10 <140> CURRENT APPLICATION NUMBER: 10/729,895A  
 11 <141> CURRENT FILING DATE: 2003-12-05  
 13 <150> PRIOR APPLICATION NUMBER: 60/510,904  
 14 <151> PRIOR FILING DATE: 2003-10-14  
 16 <150> PRIOR APPLICATION NUMBER: 60/510,968  
 17 <151> PRIOR FILING DATE: 2003-10-14  
 19 <150> PRIOR APPLICATION NUMBER: 60/432,064  
 20 <151> PRIOR FILING DATE: 2002-12-06  
 22 <150> PRIOR APPLICATION NUMBER: 60/432,077  
 23 <151> PRIOR FILING DATE: 2002-12-06  
 25 <150> PRIOR APPLICATION NUMBER: 60/432,078  
 26 <151> PRIOR FILING DATE: 2002-12-06  
 28 <160> NUMBER OF SEQ ID NOS: 18  
 30 <170> SOFTWARE: PatentIn Ver. 3.2

Does Not Comply  
Corrected Diskette Needed

## ERRORED SEQUENCES

628 <210> SEQ ID NO: 18  
 629 <211> LENGTH: 24  
 630 <212> TYPE: DNA  
 631 <213> ORGANISM: Artificial Sequence  
 633 <220> FEATURE:  
 634 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 635 primer  
 637 <400> SEQUENCE: 18  
 638 tttttttttt tttttttttt tttt

24

E--&gt; 641 12

E--&gt; 643 12/12

## VERIFICATION SUMMARY

DATE: 08/03/2005

PATENT APPLICATION: US/10/729,895A

TIME: 14:35:18

Input Set : A:\N12-038US Seg Listing.txt

Output Set: N:\CRF4\08032005\J729895A.raw

L:624 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0  
L:641 M:254 E: No. of Bases conflict, this line has no nucleotides.  
M:254 Repeated in SeqNo=18  
L:643 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:3  
L:643 M:252 E: No. of Seq. differs, <211> LENGTH:Input:24 Found:25 SEQ:18